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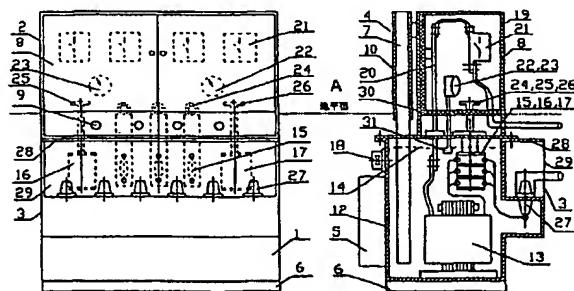
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— 包括国际检索报告。

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(54) Title: A COMBINED TRANSFORMER AND PREFABRICATED SUBSTATIONS

(54) 发明名称: 组合式变压器和预装式变电站



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(57) Abstract: A combined transformer is comprised of a transformer chamber, a low-voltage chamber, a high-voltage chamber and a radiator. There is a hollow thermal pipe filled with a heat-transfer medium in the radiator. One of the ends of the thermal pipe is plugged into the transformer chamber and on being located the other end there are heat sinks. Wherein the low-voltage chamber being located on the transformer and the high-voltage chamber being on the side of the transformer, the transformer chamber and the high-voltage chamber are embedded in the ground. The prefabricated substations are comprised of a transformer chamber, a transformer arranged in the transformer chamber, a switch chamber including a low-voltage chamber and a high-voltage chamber, a radiator and a hollow thermal pipe filled with a heat-transfer medium in the radiator. One of the ends of the thermal pipe is plugged into the transformer chamber and the other end is arranged thermally-conductive sheets, the thermally conductive sheets are located on the outside of the switch chamber which is arranged on the transformer chamber. The high-voltage chamber and the low-voltage chamber both have doors the transformer chamber is enclosed with a pit and a cover. The said thermal pipe of the transformer dose not only has the large capacity, the long using life and high reliability, small size and the heat-transfer effect greatly improved but greatly reduces the occupation area of the transformer.

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(57) 摘要

组合式变压器包括变压室，低压室，高压室，散热器，散热器上带有中空的热管，该热管空腔内充有传热介质，热管的一端插入变压室内，另一端设有散热片，低压室设置在变压室的上面，高压室设置在变压室的侧面，变压室和高压室埋入地下。预装式变电站包括变压室，安装在变压室内的变压器，其内设有低压室和高压室的开关室，散热器，散热器上带有中空的热管，该热管空腔内充有传热介质，热管的一端插入变压器内，另一端设有散热片，该散热片位于开关室的外侧面，开关室设置在变压室的上方，高压室和低压室设有门，变压室由地坑和盖板围成。上述变压器的热管的传热容量大，寿命长，可靠性高，体积小，散热效果大大改进，而且大大减小了变压器的占地面积。